### PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION PCT-2501 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2005/000120 07.01.2005 07.01.2004 International Patent Classification (IPC) or both national classification and IPC Applicant JISOUKEN CO., LTD. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer Facsimile No. Telephone No.

Вох	No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	itional comments:

International application No.
PCT/JP2005/000120

l.	Statement			
	Novelty (N)	Claims	1-20	YE
		Claims		NO
	Inventive step (IS)	Claims	1-20	YE
		Claims		NO.
	Industrial applicability (IA)	Claims	1-20	YE
		Claims		NO

Document 1: JP 4-71257 A (Hitachi Ltd), 05 March 1992, page 3, upper right box, line 5 to bottom right box, line 13, Fig. 1, Fig. 2

Document 2: JP 6-275746 A (Hitachi Ltd), 30 September 1994, paragraphs 0014-0024, Figs. 1-12

Document 3: JP 11-54676 A (Ebara Densen Co Ltd), 26 February 1999, paragraphs 0011-0014, Figs. 1-4

Document 4: JP 4-243153 A (Actronics Inc), 31 August 1992, paragraph 0013, Figs. 9-11 Document 5: JP 4-206555 A (Hitachi Ltd), 28 July 1992, page 3, bottom left box, line 17 to page 4, bottom left box, line 20, Fig. 2

### Claims 1-20

A fin composed of a coiled metallic wire provided to a heat sink, wherein adjacent ring units are joined in mutually alternating positions, and formed flattened is neither described in any of documents 1-5, nor is it obvious to a person skilled in the art.

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4.	Additional comments:

International application No.
PCT/JP2005/000120

Box No. V Reasoned statement under Ru citations and explanations sup			le 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; poorting such statement			
1.	Statement					
	Novelty (N)	Claims	1-20	YES		
		Claims		NO		
	Inventive step (IS)	Claims	1-20	YES		
		Claims		NO		
	Industrial applicability (IA)	Claims	1-20	YES		
		Claims		NO		

#### 2. Citations and explanations:

Document 1: JP 4-71257 A (Hitachi Ltd), 05 March 1992, page 3, upper right box, line 5 to bottom right box, line 13, Fig. 1, Fig. 2

Document 2: JP 6-275746 A (Hitachi Ltd), 30 September 1994, paragraphs 0014-0024, Figs. 1-12

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## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUT	HORITY	W.C.				
To:		PCT PCT				
			RITTEN OPINION OF THE FIONAL SEARCHING AUTHORITY			
			(PCT Rule 43bis.1)			
		Date of mailing (day/month/year)				
Applicant's or agent's file reference PCT-2501		FOR FURTHER	ACTION See paragraph 2 below			
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)			
PCT/JP2005/000120	07.01.2005					
Applicant  JISOUKEN CO., LTD.						
This opinion contains indication     Box No. I     Basis of	s relating to the following iten of the opinion	ns:				
Box No. II Priorit	y					
Box No. III Non-e	stablishment of opinion with re	egard to novelty, inven	tive step and industrial applicability			
	f unity of invention					
	ned statement under Rule 43bi ability; citations and explanation		novelty, inventive step or industrial tement			
Box No. VI Certain	documents cited					
Box No. VII Certain	defects in the international a	pplication				
Box No. VIII Certain	observations on the internation	onal application				
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For further options, see Form PC	TT/ISA/220.					
3. For further details, see notes to l	Form PCT/ISA/220.					
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		in written format	
		in computer readable form	·
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4.	Add	litional comments:	
		·	

Box No. V			le 43bis 1(a)(i)		to novelty			al annlicability	
19UA 19U. 1	citations and expla				o novery,	mvenuve ste	or muustn	a. appacaunt	,,
1. State	ement								
. 1	Novelty (N)	Claims	1-20						YES
		Claims							NO
	Laurentine atom (18)		1 00						
I	Inventive step (IS)	Claims	1-20						YES
		Claims		<u></u>				······································	NO
I	Industrial applicability (IA)	Claims	1-20			•			YES
		Claims							NO
		<del> </del>		<del> </del>				<del></del>	
2. Cita	tions and explanations:								•
Do	ocument 1: JP 4-712	57 A (H	itachi Ltd)	, 05 Marc	ch 1992	, page 3,	upper rig	ht box, lin	ne 5 to
bo	ttom right box, line	13, Fig.	1, Fig. 2	•	•				
	ocument 2: JP 6-275	746 A (	Hitachi Lto	d), 30 Sep	tember	1994, pa	ragraphs	0014-002	4, Figs.
1-1 Do	12 ocument 3: JP 11-54	.676 A A	Ebara Den	sen Co I 1	d) 26 I	Fehruary	1999 na	ragranhe N	011-
	14, Figs. 1-4	JIJA	Journ Dell	con CO LI	,, 2U I	. corum y	. , , , pa	. ~5.upins U	<b>J11</b>
Do	ocument 4: JP 4-243								
· Do	ocument 5: JP 4-206	5555 A (	Hitachi Lto						
pa	ge 4, bottom left bo	x, line 2	0, Fig. 2				•		
	Ciata 1 00					•			
	Claims 1-20 A fin compose	d of a or	oiled metal	lic wire n	rovide	to a hear	sink w	nerein adia	acent
rin	A fin compose ng units are joined in								III
de	scribed in any of do	cuments	1-5, nor is	s it obvio	us to a p	person sk	illed in th	ne art.	
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